



THE KENYA NATIONAL EXAMINATIONS BOARD

STANDARD FIVE - KNE 2021
SCIENCE

PRE-GOLD

Time: 1 hr 40 mins

- Water and mineral salts are absorbed in the
A. rectum A. colon
C. stomach D. ileum
- To be in good health one needs the following except
A. taking medicine when sick.
B. sleep when you feel like.
C. taking too much food.
D. playing using ropes.
- Digestion of food begins in the
A. stomach.
B. mouth
C. small intestine.
D. oesophagus.
- A twelve year old child is **not likely** to have
A. canines B. wisdom teeth
C. incisors D. premolars
- HIV can be spread through the following body fluids except
A. saliva B. breast milk
C. tears D. blood
- During breathing in, the ribs move
A. downwards and inwards.
B. outwards and inwards.
C. upwards and outwards.
D. downwards and upwards.
- Animals move by various ways. Which animal below is wrongly matched with its movement?



- The type of root shown below is not found
A. maize
B. acacia
C. onion
D. coconut

- Which one of the following is untrue about the type of teeth shown below?

- Which one of the following plants is not able to make its own food?
A. Bracket tree B. Fern
C. Pine D. Algae

- Standard three pupils put soil in a glass and then added some water. After that, they noticed bubbles rising. What were they experimenting on?
A. Soil in air. B. Water in air.
C. Water in soil. D. Air in soil.

- Ostrich -walking

- B. Earthworm -gliding
C. Snail -slithering
D. Grassopper -leaping
8. Which of the following gives a list of cereals only?
- A. Maize, groundnuts, millet
B. Millet, rice, green grams
C. Barley, oats, sorghum
D. Wheat, rice, peas
13. Standard three pupils brought the following items:
- (i) A clean piece of cloth.
(ii) A clean container.
(iii) Muddy water
- What were they investigating?
- A. Making water safe for drinking.
B. Air in soil.
C. Soil in water.
D. Air in water.
14. Which one of these foods are not pccled?
- A. Beans B. Irish potatoes
C. Sugarcane D. Bananas

15. Three of the following are examples of vertebrates except

- A. newt B. ladybird
C. lizard D. tilapia



16. The below instrument behaved in the way shown below in a certain day. What can one

conclude after observing it?

- A. There was no wind.
B. The day was calm.
C. The day was cloudy
D. There was strong wind.

17. Std-4 pupils went for a science walk and observed a weed with the following features:

- (i) Black seeds.
(ii) Had hooks on the seeds.
(iii) Had white flowers.

The weed was most likely to be

- A. sodom apple B. oxalis
C. pigweed D. black jack

18. Which one of the following shows examples of animals that have constant body temperature?

- A. Newt and duck B. Python and bat
C. Hen and shark D. Cow and kingfisher

19. Class three pupils blindfolded one of them and asked him to listen to a ringing bell from different sides. What were they likely to be investigating?

- A. Direction of sound.
B. Noise pollution.
C. Special sound
D. Loud and soft sound.



- A. Repairing when broken.
B. Proper storage.
C. Proper use.

D. Sharpening.

22. Which one of the following does not need to be the same when investigating water retention?

- A. Amount of water.
B. Size of the collecting jar.
C. Amount of soil.
D. Size of the funnels.

23. The following are sources of proteins except

- A. green bananas B. mutton
C. termites D. pork

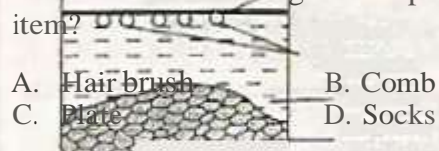
24. Which of the following groups of food make a balanced diet?

- A. Milk bread, sweet potatoes
B. Meat, cabbage, ugali
C. Rice, green bananas, potatoes
D. Meat, beans, fish

25. Three of the following sentences state the importance of lighting a house properly. Which one does not?

- A. Good lighting discourages pest.
B. Light enables us to see clearly.
C. One is able to read comfortably.
D. People are able to sleep well.

26. Which of the following is not a personal item?



- A. Hair brush B. Comb
C. Plate D. Socks

20. The following are recreational uses of water.

Which one is not?

- A. Making fountains.
- B. Boat racing
- C. Fishing.
- D. Surfing.

21. The diagram below shows a simple tool. Which of the following is **not** a way of maintaining the **simple** tools?

27. The set up shown below can be used to investigate the presence of a certain component of soil

Tia

Water

droplets

Water


Garden


Soil

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The soil component being investigated is

- A. rocky particles
- B. air
- C. water
- D. organic matter

28. Pupils were asked by their teacher to carry the following materials in order to investigate capillarity:
- (i) Equal amount of soil
 - (ii) Ball point pens
 - (iii) Transparent plastic bottle
 - (iv) Water and cotton wool
 - (v) A clock
- Which of the following materials would be most suitable instead of cotton wool?
- A. Cotton
 - B. Filter paper
 - C. Piece of cloth
 - D. Small stones
29. Which of the following is a use of water in industries?
- A. Cooling machines
 - B. Washing vehicles.
 - C. Fishing
 - D. Surfing
30. Which is the main source of water?
- A. Dam
 - B. River
 - C. Rain
 - D. Well
31. The set up below was used to investigate a certain aspect of heat during a standard 5 lesson
- 

Water
Container
- Which one is it?
- A. Conductivity of heat.
 - B. Expansion in solids.
 - C. Radiation.
 - D. Convection.
32. Class five pupils did an experiment shown below
- 

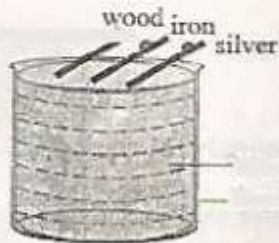
Coloured Water
Straw
- A. Contraction of air on heating.
- B. Contraction of liquids on heating
- C. Expansion of air on heating.
- D. Expansion of liquids on heating.
33. The following are safety measures when handling chemicals except
- A. chemicals should never be stored near food.
 - B. liquid chemicals to be stored in soft drink juice bottles.
 - C. chemicals to be kept in a lockable cabinet.
 - D. all chemicals containers should be well labelled.
34. HIV cannot be spread through all the following except
- A. blood transfusion.
 - B. hugging.
 - C. sharing food plates and spoon.
 - D. mosquito bites.
35. Which one of the following should be done in order for a heavier person to balance with a lighter person on a seesaw? The heavier person should
- A. move pivot near the lighter person.
 - B. move closer to the pivot.
 - C. move far from the pivot.
 - D. make pivot higher.
36. Which one of the following change of state involves a decrease in temperature?
- A. Expansion of soil.
 - B. Evaporation
 - C. Freezing
 - D. Melting.
37. Which of the following animals can be grouped together with spider?
- A. Millipede, centipede
 - B. Mite, tick
 - C. Mite, snail
 - D. Tick, housefly

38. Which of the following is correctly matched with its products?

bottle

Source of heat

After heating the level of water rose on the tube. What property of matter was being investigated?



- A. Sheep -wool and milk
- B. Chicken -meat and eggs
- C. Goats -milk and wool

39. What is the function of the hard rings which are c-shaped in trachea?

- A. Helps to trap dust and germs.
- B. Helps trachea to remain open.
- C. Helps to allow passage of air.
- D. Helps to moisten the air.

40. Study the diagram below.



The heat reaches X and Y by

- | | | |
|----|------------|------------|
| | X | Y |
| A. | Convection | radiation |
| B. | Conduction | convection |
| C. | Radiation | convection |
| D. | Convection | conduction |

41. It is true to say that
- in window stage, a person may test HIV positive.
 - symptomatic state is the second stage of HIV infection.
 - during incubation stage, an infected person still looks healthy.
 - in full blown state, an infected person test's negative.

42. Which one of the following groups of plants consist of green flowering plants?

- Cactus, cabbage, onion
- Sisal, kales, moss
- Fer, algae, moss

D. Mould, mucor, yeast

43. The rain gauge is dug into the ground mainly to

- reduc the rate of evaporation of rain water collected.
- prevent ground water from splashing into the funnel.
- to prevent soil from getting into the funnel.
- Prevent water from over flowing.

44. A beam balance is used for

- weighing objects to find their heaviness.

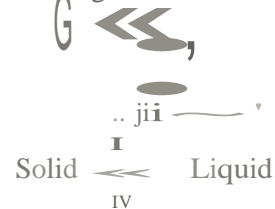
45. Which one of the following is not a characteristic of all animals?

- All animals respond to the changes of their environment.
- All animals make their own food.
- All animals reproduce.
- All animals feed.

46. Which one of the following is the correct characteristics of Nimbus and Cumulus cloud?

- | Nimbus | Cumulus |
|----------------------------------|----------------------|
| A. Indicate fine weather | Indicate heavy rain |
| B. White in colour | Dark grey in colour |
| C. Resembles a small cotton ball | Mountainous in shape |
| D. Low in the sky | High in the sky |

47. Study the diagram below.



Which two arrows shows increase of temperature?

- | | |
|-----------|-----------|
| A. (ii) ○ | B. ○(iv) |
| C. (iv) ○ | D. ○ (ii) |

B. ses of different objects.

C. comparing volume of different objects.

D. comparing pressure of different objects.

48.

- Which of the following animals does not have a bill?
- A. Platypus.
 - B. Snakes and chameleons.
 - C. Whales and dolphins.
 - D. Bat and spiny ant eater

49.

- Which soil makes the longest ribbons?
- A. Loam
 - B. Clay
 - C. Sand
 - D. Clay and sand

50.

- Which one of the following is not an importance of water in the diet?
- A. Water helps to prevent the skin from drying.
 - B. Water helps in the digestion of food.
 - C. Water helps to prevent constipation
 - D. Water helps in making of blood.



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| Item | Description |
|----------------|-------------|
| 1. [illegible] | [illegible] |
| 2. [illegible] | [illegible] |
| 3. [illegible] | [illegible] |
| 4. [illegible] | [illegible] |

